



## E-learning Course in Neonatology

### Study plan

The program of the course is subdivided in 18 modules each having a series of lessons with a total of 70 lessons.

#### Structure and details of the course:

| Modules                                    | N.  | Lessons                                                                           | Speaker                                  |
|--------------------------------------------|-----|-----------------------------------------------------------------------------------|------------------------------------------|
| <b>I - Perinatal Medicine</b>              | 1   | Coming into the world in Italy today: lights and shadows                          | Mario De Curtis                          |
|                                            | 2   | Twins: "special" babies                                                           | Mario De Curtis                          |
|                                            | 3   | Children conceived by assisted reproduction                                       | Luigi Orfeo                              |
|                                            | 4   | Birth trauma                                                                      | Gennaro Vetrano                          |
|                                            | 5   | Resuscitation in delivery room                                                    | Viviana Cardilli                         |
|                                            | 6   | Neonatal resuscitation: special cases                                             | Chiara Protano                           |
|                                            | 7-8 | Neonatal abstinence syndrome                                                      | Andrea Dotta,<br>Marianna<br>Mastrandrea |
| <b>II - General aspects of Neonatology</b> | 9   | Clinical evaluation of term and preterm neonate                                   | Renato Lucchini                          |
|                                            | 10  | Jaundice: physiopathology, diagnosis and treatment of hyperbilirubinemia          | Daniela Regoli                           |
|                                            | 11  | Late preterm                                                                      | Marcello Lanari                          |
|                                            | 12  | Follow-up (non neurological) of preterm infants                                   | Francesca Gallini                        |
|                                            | 13  | Pain in newborn                                                                   | Paola Lago                               |
| <b>III- Immuno-Haematology</b>             | 14  | Anemia in neonate                                                                 | Annamaria Casadei                        |
|                                            | 15  | Thrombocytopenia                                                                  | Antonio Del Vecchio                      |
|                                            | 16  | Blood transfusion                                                                 | Antonio Del Vecchio                      |
| <b>IV - Care</b>                           | 17  | Diagnosis communication and parental support in Neonatal Intensive Care Unit (I)  | Sarah Gangi                              |
|                                            | 18  | Diagnosis communication and parental support in Neonatal Intensive Care Unit (II) | Sarah Gangi                              |
|                                            | 19  | Humanization of perinatal care                                                    | Maurizio Saporito                        |
| <b>V - Pneumology</b>                      | 20  | Respiratory physiopathology                                                       | Andrea Dotta                             |
|                                            | 21  | Management of neonatal respiratory distress syndrome                              | Viviana Cardilli                         |
|                                            | 22  | Bronchiolitis                                                                     | Paola Papoff                             |
|                                            | 23  | Chronic lung disease                                                              | Fabio Mosca                              |
| <b>VI - Nutrition and Gastroenterology</b> | 24  | Enteral nutrition in preterm infants                                              | Luca Maggio                              |
|                                            | 25  | Parenteral nutrition                                                              | Renato Lucchini                          |
|                                            | 26  | Collection and storage of human milk                                              | Paola Tonetto                            |
|                                            | 27  | Human Milk Bank                                                                   | Enrico Bertino                           |
|                                            | 28  | Gastrointestinal reflux                                                           | Gianluca Terrin                          |
|                                            | 29  | Pathogenesis and prevention of necrotizing                                        | Mario De Curtis                          |

|                                        |       |                                                                                                                    |                                       |
|----------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------|
|                                        |       | enterocolitis                                                                                                      |                                       |
| <b>VII - Surgical problems</b>         | 30    | Esophageal atresia                                                                                                 | Denis Cozzi                           |
|                                        | 31    | Neonatal acute abdomen                                                                                             | Denis Cozzi                           |
|                                        | 32    | Neonatal Anesthesia                                                                                                | Nicole Almenrader                     |
| <b>VIII - Infections</b>               | 33    | Early onset neonatal sepsis                                                                                        | Fabio Natale                          |
|                                        | 34    | Cytomegalovirus infection                                                                                          | Fabio Natale                          |
|                                        | 35    | Congenital Toxoplasmosis                                                                                           | Mauro Stronati                        |
|                                        | 36    | Chickenpox in mother, fetus and newborn                                                                            | Giacomo Faldella                      |
|                                        | 37    | Herpes simplex virus infection in mother, fetus and newborn                                                        | Giacomo Faldella                      |
|                                        | 38    | Syphilis                                                                                                           | Piero Valentini                       |
| <b>IX - Neurology</b>                  | 39    | Neurodevelopment of preterm infants                                                                                | Barbara Caravale                      |
|                                        | 40    | Cerebral ultrasound examination (I and II part)                                                                    | Chiara Protano,<br>Raffaella Cellitti |
|                                        | 41    | Seizures                                                                                                           | Donatella Castronovo                  |
|                                        | 42    | Hypothermia in neonatal asphyxia                                                                                   | Fabrizio Ferrari                      |
| <b>X - Techniques &amp; procedures</b> | 43-46 | Lumbar puncture, arterial puncture, umbilical vein catheterization, Peripherally inserted central catheters (PICC) | Francesco Messina                     |
|                                        | 47-49 | Capillary blood sampling, venous blood collection, peripheral intravenous line placement                           | Romilda Ferraro                       |
|                                        | 50-51 | Endotracheal intubation, intrapleural drainage                                                                     | Francesco Messina                     |
| <b>XI - Genetics</b>                   | 52    | Principles of medical genetics                                                                                     | Giovanni Corsello                     |
|                                        | 53    | Approach to the newborn with malformative syndrome                                                                 | Luigi Tarani                          |
|                                        | 54    | Metabolic diseases                                                                                                 | Carlo Dionisi Vici                    |
|                                        | 55    | Ambiguous genitalia                                                                                                | Paolo Ghirri                          |
| <b>XII - Ophthalmological diseases</b> | 56    | Ophthalmological diseases in newborns                                                                              | Romualdo Malagola                     |
|                                        | 57    | Eye diseases in newborn                                                                                            | Antonella Mollicone                   |
| <b>XIII - Screening</b>                | 58    | Neonatal hearing screening                                                                                         | Rosaria Turchetta                     |
|                                        | 59    | Hypothyroidism and <u>Hyperthyroidism</u> screening                                                                | Monica Bartolucci<br>Pietro Costa     |
|                                        | 60    | Hip dysplasia screening                                                                                            | Alberto Villani                       |
| <b>XIV - Radiology</b>                 | 61    | X Ray examination in newborn                                                                                       | Miriam D'Avanzo                       |
| <b>XV - Nephrology</b>                 | 62    | Urinary tract malformations                                                                                        | Riccardo Lubrano                      |
|                                        | 63    | Renal failure                                                                                                      | Riccardo Lubrano                      |
| <b>XVI - Dermatology</b>               | 64    | Introduction to neonatal dermatology                                                                               | Mauro Paradisi                        |
|                                        | 65    | Vascular tumors                                                                                                    | Maya El Hachem                        |
| <b>XVII - Neonatal devices</b>         | 66    | Temperature control, incubator, infant warmer                                                                      | Gennaro Vetrano                       |
|                                        | 67    | Oximeter, pulse-oximetry, transcutaneous gas examination                                                           | Lucia Dito                            |
|                                        | 68    | Devices for non-invasive and invasive ventilation and cardiorespiratory function monitoring                        | Andrea Dotta                          |
|                                        | 69    | Electroencephalography and Cerebral functional monitoring                                                          | Donatella Castronovo                  |
| <b>XVIII - Cardiology</b>              | 70    | Congenital Heart diseases: postnatal diagnosis                                                                     | Paolo Versacci                        |